




PIPFOAM 250CG

SAFETY DATA SHEET

Compliant SDS for GHS - Canada WHMIS 2015 Compliant SDS for GHS – HCS 2012 United States

| SECTION 1: IDENTIFICATION | |
|---|---|
| Supplier/Manufacturer: Huntsman Building Solutions 3315 E Division St Arlington, TX 76011 Phone: 817-640-4900 / Fax: 817-633-2000 E-mail: info@huntsmanbuilds.com Website: www.huntsmanbuildingsolutions.com | GHS Product Identifier: PIP Foam 250CG Product code: PIP Foam 250CG Chemical Name: Polyurethane Resin. Product type: Liquid. Identified Use: Component B of a polyurethane insulation foam system. Component B and a polyurethane structural foam system. |
| Emergency Telephone (24/7): | In Canada: CANUTEC 613-996-6666 or *666 (cellular). In USA: CHEMTREC 800-424-9300 |

| SECTION 2: HAZARDS IDENTIFICATION | |
|---|---|
| OSHA/HCS Status | This material is classified hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Classification of the Substance or Mixture | SKIN SENSITIZATION - Category 1 |
| GHS label elements | |
| Hazard Pictograms |  |
| Signal Word | Warning |
| Hazard Statements | May cause an allergic skin reaction. |
| PRECAUTIONARY STATEMENTS | |
| Prevention | Wear protective gloves. Avoid breathing vapor. Contaminated work clothing should not be allowed out of the workplace. |
| Response | Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. |
| Storage | Not applicable. |
| Disposal | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) | |
| Physical Hazards Not Otherwise Classified (PHNOC) | None known. |
| Health Hazards Not Otherwise Classified (HHNOC) | None known. |

| SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS | |
|---|--------------------|
| Substance/Mixture | Mixture. |
| Chemical Name | Polyurethane Resin |
| CAS NUMBER/OTHER IDENTIFIERS | |
| CAS Number | Not applicable. |
| Product Code | PIP Foam 250CG |

| INGREDIENTS | CAS # | % |
|--|-------------|-----------|
| tris(2-Chloro-1-methylethyl) phosphate | 13674-84-5 | ≥5 - ≤10 |
| 1-Propene, 1-chloro-3,3,3-trifluoro-, (1E)- | 102687-65-0 | ≥1 - ≤5 |
| 1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate | 6846-50-0 | ≥1 - ≤5 |
| Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, ether with [[2-[(2-hydroxyethyl)(2-hydroxymethylethyl)amino]ethyl]imino]bis[propano]](4:1) | 31568-06-6 | ≥0.1 - ≤1 |

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (l) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

| SECTION 4: FIRST AID MEASURES | |
|--|---|
| DESCRIPTION OF NECESSARY FIRST AID MEASURES | |
| Eye contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20minutes. Get medical attention if irritation occurs. |
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED | |
| POTENTIAL ACUTE HEALTH EFFECTS | |
| Eye Contact | No known significant effects or critical hazards. |
| Inhalation | No known significant effects or critical hazards. |
| Skin Contact | May cause an allergic reaction. |
| Ingestion | No known significant effects or critical hazards. |
| OVER-EXPOSURE SIGNS/SYMPTOMS | |
| Eye Contact | No known significant effects or critical hazards. |
| Inhalation | No known significant effects or critical hazards. |
| Skin Contact | Adverse symptoms may include the following: irritation, redness. |
| Ingestion | No known significant effects or critical hazards. |
| INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY | |
| Notes to Physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific Treatments | No specific treatment. |
| Protection of First-aiders | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

See toxicological information (Section 11)

| SECTION 5: FIRE-FIGHTING MEASURES | |
|--|---|
| Suitable Extinguishing Media | Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable Extinguishing Media | None known. |
| Specific Hazards Arising from the Chemical | No specific fire or explosion hazard. |
| Hazardous Thermal Decomposition Products | Decomposition products may include the following materials: carbon dioxide, carbon monoxide, phosphorus oxides, halogenated compounds. |
| Special Protective Actions for Fire Fighters | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special Protective Equipment for Fire Fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

| SECTION 6: ACCIDENTAL RELEASE MEASURES | |
|--|---|
| PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES | |
| For Non-emergency Personnel | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For Emergency Responders | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Environmental Precautions | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP | |
| Small Spill | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

| SECTION 7: HANDLING AND STORAGE | |
|---|--|
| PRECAUTIONS FOR SAFE HANDLING | |
| Protective Measures | Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| Advice on General Occupational Hygiene | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. |
| Conditions for safe storage including any incompatibilities | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| Storage Temperature | 15 – 25°C (59 – 77°F) (minimum – maximum). |
| Storage Life | 6 Months. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

United States

Occupational exposure limits

| Ingredient name | Exposure limits |
|---|--|
| tris(2-Chloro-1-methylethyl) phosphate | None. |
| 1-Propene, 1-chloro-3,3,3-trifluoro-, (1E)- | AIHA WEEL (United States, 7/2018). TWA: 800 ppm 8 hours. |
| 1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate | None. |
| Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- ω -hydroxy-, ether with [[2-[(2-hydroxyethyl)(2-hydroxymethylethyl)amino]ethyl]imino]bis[propanol](4:1) | None. |

Canada

Occupational exposure limits

| Ingredient name | Exposures limits |
|---|--|
| 1-Propene, 1-chloro-3,3,3-trifluoro-, (1E)- | AIHA WEEL (United States, 7/2018). TWA: 800 ppm 8 hours. |
| Appropriate engineering controls | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| Environmental exposure controls | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirement of environmental protection legislation. |

INDIVIDUAL PROTECTION MEASURES

| | |
|------------------------|--|
| Hygiene Measures | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Eye/Face Protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields. |
| Hand Protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| Body Protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other Skin Protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------|----------------|
| Physical State | Liquid, clear. |
| Color | Blue. |
| Odor | Slight amine. |
| Odor Threshold | Not available. |

| | |
|--|------------------------------|
| pH | Not available. |
| Melting Point | Not available. |
| Boiling Point | Not available. |
| Flash Point | Closed Cup: >93°C (>200°F) |
| Evaporation Rate | Not available. |
| Flammability (Solid, Gas) | Not available. |
| Lower and Upper Explosive (Flammable) Limits | Not available. |
| Vapor Pressure | Not available. |
| Vapor Density | Not available. |
| Specific Gravity @ 25°C (77°F) | 1.12-1.18 |
| Solubility | Moderately soluble in water. |
| Partition Coefficient: N-Octanol/Water | Not available. |
| Auto-Ignition Temperature | Not available. |
| Decomposition Temperature | Not available. |
| Viscosity @ 25°C (77°F) (cps) | Not available. |
| Volatility | Not available. |

SECTION 10: STABILITY AND REACTIVITY

| | |
|------------------------------------|--|
| Reactivity | No specific test data related to reactivity available for this product or its ingredients. |
| Chemical Stability | The product is stable. |
| Possibility of Hazardous Reactions | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to Avoid | Avoid exposure to moisture and high temperatures to protect product quality. |
| Incompatible Materials | Reactive or incompatible with the following materials: oxidizing materials. Avoid unintended contact with isocyanates. |
| Hazardous Decomposition Products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

| Product / Ingredient Name | Result | Species | Dose | Exposure |
|--|-----------|---------|------------|----------|
| tris(2-Chloro-1-methylethyl) phosphate | LD50 Oral | Rat | 1500 mg/kg | - |

IRRITATION / CORROSION

| Product / Ingredient Name | Result | Species | Score | Exposure | Observation |
|--|----------------------|------------|-------|-----------|-------------|
| 1-Isopropyl-2,2-dimethyl- trimethylene diisobutyrate | Skin - Mild irritant | Guinea pig | - | 5 gm | - |
| | Skin - Mild irritant | Human | - | 504 hours | - |

SENSITIZATION

There is no data available.

MUTAGENICITY

There is no data available.

CARCINOGENICITY

There is no data available.

REPRODUCTIVE TOXICITY

There is no data available.

| | | | | | |
|---|---|----------------|--------------------------|----------------------------|-------------------------------------|
| TERATOGENICITY | | | | | |
| There is no data available. | | | | | |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) | | | | | |
| There is no data available. | | | | | |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) | | | | | |
| There is no data available. | | | | | |
| ASPIRATION HAZARD | | | | | |
| There is no data available. | | | | | |
| INFORMATION ON THE LIKELY ROUTES OF EXPOSURE | | | | | |
| Routes of entry anticipated: Oral, Dermal, Inhalation. | | | | | |
| POTENTIAL ACUTE HEALTH EFFECTS | | | | | |
| Eye Contact | No known significant effects or critical hazards. | | | | |
| Inhalation | No known significant effects or critical hazards. | | | | |
| Skin Contact | May cause an allergic skin reaction. | | | | |
| Ingestion | No known significant effects or critical hazards. | | | | |
| SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS | | | | | |
| Eye Contact | No known significant effects or critical hazards. | | | | |
| Inhalation | No significant known effects or critical hazards. | | | | |
| Skin Contact | Adverse symptoms may include the following: irritation, redness. | | | | |
| Ingestion | No known significant effects or critical hazards. | | | | |
| DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE | | | | | |
| SHORT TERM EXPOSURE | | | | | |
| Potential Immediate Effects | No known significant effects or critical hazards. | | | | |
| Potential Delayed Effects | No known significant effects or critical hazards. | | | | |
| LONG TERM EXPOSURE | | | | | |
| Potential Immediate Effects | No known significant effects or critical hazards. | | | | |
| Potential Delayed Effects | No known significant effects or critical hazards. | | | | |
| POTENTIAL CHRONIC HEALTH EFFECTS | | | | | |
| General | Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. | | | | |
| Carcinogenicity | No known significant effects or critical hazards. | | | | |
| Mutagenicity | No known significant effects or critical hazards. | | | | |
| Reproductive toxicity | No known significant effects or critical hazards. | | | | |
| NUMERICAL MEASURES OF TOXICITY - ACUTE TOXICITY ESTIMATES | | | | | |
| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
| PIP Foam 500 resin | 20576.1 | N/A | N/A | N/A | N/A |
| tris(2-Chloro-1-methylethyl) phosphate | 1500 | N/A | N/A | N/A | N/A |

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY

There is no data available.

PERSISTENCE AND DEGRADABILITY

There is no data available.

BIOACCUMULATIVE POTENTIAL

| Product / Ingredient Name | LogP _{ow} | BCF | Potential |
|---|---|------------|-----------|
| tris(2-Chloro-1-methylethyl) phosphate | 2.68 | 0.8 to 2.8 | low |
| 1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate | - | 5340 | high |
| MOBILITY IN SOIL | | | |
| Soil/Water Partition Coefficient (K _{oc}) | Not available. | | |
| Other Adverse Effects | No known significant effects or critical hazards. | | |

SECTION 13: DISPOSAL CONSIDERATIONS

| | |
|------------------|---|
| Disposal Methods | The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |
|------------------|---|

SECTION 14: TRANSPORTATION INFORMATION

| DOT | |
|----------------------------|----------------|
| UN Number | Not regulated. |
| UN Proper Shipping Name | - |
| Transport Hazard Class(es) | - |
| Packing Group | - |
| Environmental Hazard | No. |
| Additional Information | - |
| TDG | |
| UN Number | Not regulated. |
| UN Proper Shipping Name | - |
| Transport Hazard Class(es) | - |
| Packing group | - |
| Environmental hazard | No. |
| Additional information | - |
| IMDG | |
| UN Number | Not regulated. |
| UN Proper Shipping Name | - |
| Transport Hazard Class(es) | - |
| Packing Group | - |
| Environmental Hazard | No. |
| Additional Information | - |
| IATA | |
| UN Number | Not regulated. |
| UN Proper Shipping Name | - |
| Transport Hazard Class(es) | - |

| | |
|------------------------|-----|
| Packing Group | - |
| Environmental Hazard | No. |
| Additional Information | - |

AERG: Not applicable.

| | |
|--|---|
| Special Precautions for User | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |
| Transport in bulk according to IMO instruments | Not available. |

SECTION 15: REGULATORY INFORMATION

| | |
|---|---|
| U.S. Federal regulations | TSCA 8(a) CDR Exempt/Partial exemption: Not determined. |
| Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) | Listed. |
| Clean Air Act Section 602 Class I Substances | Not listed. |
| Clean Air Act Section 602 Class II Substances | Not listed. |
| DEA List I Chemicals (Precursor Chemicals) | Not listed. |
| DEA List II Chemicals (Essential Chemicals) | Not listed. |

SARA 302/304

Composition/information on ingredients

No products were found.

| | |
|-------------|-----------------|
| SARA 304 RQ | Not applicable. |
|-------------|-----------------|

SARA 311/312

| | |
|----------------|---------------------------------|
| Classification | SKIN SENSITIZATION - Category 1 |
|----------------|---------------------------------|


Composition/ information on ingredients

| Name | % | Classification |
|--|----------|------------------------------------|
| tris(2-Chloro-1-methylethyl) phosphate | ≥5 - ≤10 | ACUTE TOXICITY (oral) – Category 4 |
| Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, ether with [[2-[(2-hydroxyethyl)(2-(hydroxymethylethyl)amino) ethyl] imino]bis[propanol]](4:1) | ≥0.3- ≤1 | SKIN SENSITIZATION - Category 1 |

State regulations

| | |
|---------------|------------------------------------|
| Massachusetts | None of the components are listed. |
| New York | None of the components are listed. |
| New Jersey | None of the components are listed. |
| Pensylvania | None of the components are listed. |

California Prop. 65

 **WARNING:** This product can expose you to Ethanediol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

| Ingredient name | No significant risk level | Maximum acceptable dosage level |
|-----------------|---------------------------|---------------------------------|
| Ethanediol | - | Yes. |

CANADIAN LISTS

| | |
|-----------------------|--|
| Canadian NPRI | The following components are listed: Ethanediol. |
| CEPA Toxic substances | None of the components are listed. |

INTERNATIONAL REGULATIONS

| | |
|---|--|
| Chemical Weapon Convention List Schedules I, II & III Chemicals | |
| Not listed. | |
| Montreal Protocol | |
| Not listed. | |
| Stockholm Convention on Persistent Organic Pollutants | |
| Not listed. | |
| Rotterdam Convention on Prior Informed Consent (PIC) | |
| Not listed. | |
| UNECE Aarhus Protocol on POPs and Heavy Metals | |
| Not listed. | |
| Inventory List | |
| Canada | All components are listed or exempted. |
| United States | All components are active or exempted. |

SECTION 16: OTHER INFORMATION

PROCEDURE USED TO DERIVE THE CLASSIFICATION

| Classification | Justification |
|---------------------------------|---------------------|
| SKIN SENSITIZATION - Category 1 | Calculation method. |

HISTORY

| | |
|----------------------------|---|
| Prepared by | Huntsman Building Solutions – EHS Dept. |
| Preparation Date (y-m-d) | 2021-04-07 |
| Current Issue Date (y-m-d) | 2021-04-07 |

KEY TO ABBREVIATIONS

| | |
|--------------|--|
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration Factor |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| IATA | International Air Transport Association |
| IBC | Intermediate Bulk Container |
| IMDG | International Maritime Dangerous Goods |
| LogPow | Logarithm of the octanol/water partition coefficient |
| MARPOL 73/78 | International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) |
| UN | United Nations |

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.